January, 1944

GAS

Vol. XX, No. 1
In Two Sections—Part 2

Western Business Papers, Inc., Publisher, 1709 West Eighth Street, Los Angeles, California

INDEX TO VOLUME XIX

January Through December 1943

AUTHORS

Acker, Ernest R.—The Gas Industry Meets the Challenge of War ..... April 22
Adams, K. S.—The Future of Natural Gas Derivatives ..... May 28
Adler, E. H.—Gas Heating Cabinet Dries Plane Engines in Four Hours ..... May 33
Adler, C. G.—Bi-Monthly Billing of Heating Customers ..... May 49
Allen, R. B. —Reconditioning Steel Mains in Detroit ..... Feb. 31
Anderson, K. B.—The Emergency Repair Organization of Coast Counties Gas and Electric Company ..... June 19
Banks, F. M. (Guest Editorial)—Mobilizing for the Future ..... Sept. 23
Baxter, L. L. (Guest Editorial)—No Change for the Sake of Change ..... Feb. 15
Bay, Burt R.—Natural Gas Industry War Problems ..... May 23
Bay, Burt R.—Performance Is All That Really Counts ..... April 17
Beale, S. J.—The Effect of War on the British Gas Industry ..... June 16
Beebee, A. M.—Post-War Activities of the American Gas Association ..... July 25
Bittinger, Donald S.—Teaching the Customer to Help Himself ..... May 25
Bridge, Arthur F.—How the Industry Served in 1942 ..... Jan. 18
Bridge, Arthur F. (Guest Editorial)—Federal Taxes and the Utilities ..... Oct. 21
Bridge, Arthur F.—We Must Maintain an United Front ..... Nov. 24
Brosius, John P.—Symposium on the Wartime Task of Industrial and Commercial Gas.
Part 5. The War and Metal Treating with Gas ..... April 40
Cable, Jo H.—Symposium on Storing Gas Underground.
Part 2. Field Tests for Determining Injection Volumes, Pressure and Plant Capacity ..... Dec. 41
Cohen, Theodore A.—Combustion Safeguards in the Utilization of Gaseous Fuels ..... March 23
Colbert, Asel R.—An Analysis of Utility Taxes ..... Dec. 20
Collins, J. H.—Keeping Gas Appliances at Their War Jobs ..... June 35
Cox, W. G.—Symposium on Centralized Planning of Street Department Work.
Part 3. Engineering Job Planning ..... Sept. 40
Cozzens, J. E.—New Mexico Eastern Gas Company's Roswell Compressor Plant ..... Feb. 33
DeBard, Davis M. (Guest Editorial)—Answers to an Important Question on Utility Advertising ..... Jan. 11
de Coriolis, E. G.—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 2. War and Post-War Industrial Equipment ..... April 38
Doran, John N.—Protecting Gas Holders Against Bombing Attacks ..... Feb. 23
Dumas, R. J.—A Cement Asbestos Pipe Coating ..... Oct. 43
Dunkle, R. V.—Symposium of Gas Generators.
Part 3. Pressure Drop in Checker Brick ..... March 30
Glidden, C. S.—Importance of Proper Chart Censoring in Gas Measurement Work ..... Aug. 26
Hall, A. S.—Symposium on Water Gas and Coke Oven Operations.
Part 1. Silicon Carbide Solid Linings ..... June 21
Hall, O. D.—Oil Compact Commission Holds Winter Meeting ..... Jan. 29
Hall, O. D.—Symposium on Storing Gas Underground.
Part 1. Summary of Projects by States ..... Dec. 38
Hanson, R. A.—Symposium on Gas Generators.
Part 1. Design of Sprays and Burners ..... March 27
Hardin, C. N.—Symposium on Centralized Planning of Street Department Work.
Part. 2. Production Forecasting and Control ..... Sept. 39
Hayden, R. L.—Bi-Monthly Billing ..... Sept. 44
Hirose, Arthur P.—Post-War Marketing of Appliances ..... July 30
Holland, Paul L.—Cooperative Planning Between Federal and State Agencies ..... Nov. 26
Humphreys, James E.—Ohio Fuel Gas Co. in a War Role ..... Jan. 23
Ickes, Harold L.—Conservation in Wartime ..... April 21
Jamison, Frank R.—Radio and Newspaper Aid in Informing Consumers During Gas Outages ..... Jan. 27
Johnson, Oliver W.—Effect of Camouflage Painting on the Temperature of Plant Equipment ..... May 30
Johnstone, Clifford (Guest Editorial)—Perhaps We Can Do It Ourselves ..... May 19
Keeling, W. O.—Symposium on Water Gas and Coke Oven Operations.
Part 3. Gasoline Enrichment of Producer Gas ..... June 24
Kelley, J. E.—Symposium on Gas Generators.
Part 2. Conversion of Water Gas Machines ..... March 27
Klees, A. L.—Increased Efficiency and Capacity in Oil Gas Production ..... Oct. 41
Knoy, M. Frank—Gas Holder Corrosion ..... May 34
Long, J. H.—Symposium on Water Gas and Coke Oven Oven Operations.
Part 2. Underfiring with Refinery Oil Gas ..... June 22
Marklin, Fred W.—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 4. Developments in Furnaceless Heat Treating April 40
Masser, H. L.—Butadiene Production Gets Underway at the Plant of the Southern California Gas Company ..... July 21
Masser, H. L.—Report of Gas Industry Development Committee, PCGA ..... Oct., 33—Nov., 33—Dec. 29
May, George Elmer—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 6. Small Air Conditioning Installations ..... May 37
McQueen, Jessie (Guest Editorial)—Opportunities and Hurdles in Home Service ..... Dec. 7
Merrill, Bert—Air Conditioning Preserves Rare Books ..... March 52
Mitchell, Dean H.—Some Pointers on Selling Gas—Tomorrow ..... Dec. 23
Moomaw, Honoria B.—Natural Gas Facts for 1942 ..... April 25
Moran, T. C.—Propane-Air in Place of Coal Gas ..... Feb. 28
Noppel, E. P. (Guest Editorial)—Post-War Action ..... Nov. 19
Perry, A. J., Jr.—Shrimp Drying with Natural Gas ..... March 33
Pickup, L. R.—Relationship of Leakage-Pressure to Buried Distribution Mains ..... Aug. 29
Pollard, James F.—Radio Appeals Reduce Cold Wave Send-Out ..... Feb. 27
Pugh, John J.—Survey of Gas Usage in Master Metered Housing Projects in North California ..... Oct. 38
Ransburg, Harold P.—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 7. Electrolytic "Detearing" Process ..... May 38

Reynolds, D. S.—Symposium on Water Gas and Coke Oven Operations.
Part 4. Two-Shell Water Gas Sets in Boston ..... June 25
Rockwell, Col. Willard F. (Guest Editorial)—For the Future, Look to the Past ..... Aug. 17
Rockwell, Col. Willard F.—Post-War Planning from the Manufacturer's Standpoint ..... April 29
Ruggles, C. O.—Trends in Public Utility Regulation ..... April 27
Ruthenburg, Louis—The Fifth Freedom ..... Oct. 36
Segeler, C. George—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 3. Aluminum and Magnesium Heat Treating ..... April 39
Segeler, C. George—We'll Always Need Gas ..... June 15
Sorenson, C. V.—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 8. Outlook for the Post-War Period ..... May 39
Sperry, Marcy L.—The Past, Present and Future of Gas Industry Research ..... Dec. 15
Stafford, J. F.—Symposium on Centralized Planning of Street Department Work.
Part 1. Centralized Dispatching ..... Sept. 36
Steinberg, Dr. H. H.—An Industrial Medical Program ..... Oct. 29
Taylor, Elliott—AGA Convention Highlights ..... Nov. 25
Taylor, Elliott—The Office of War Utilities ..... Oct. 25
Taylor, Elliott—Utility-Manufacturer Cooperation Keynotes, AGAEM Meeting ..... July 40
Terrell, C. E.—High Pressure Gas Transmission ..... April 31
Thiesmeyer, Lincoln R.—Gas Institute Fellows Serve Again in the War Production Army ..... Aug. 23
Vandaveer, F. E.—Gum Protective Devices for Gas Appliances ..... June 28
Vandaveer, F. E.—Symposium on the Wartime Tasks of Industrial and Commercial Gas.
Part 1. Data on Gas Immersion Tube Heating ..... April 35
Webber, C. H.—Increased Efficiency and Capacity in Oil Gas Production ..... Oct. 41
Wheeldon, Harry—Recycling Plant Design and Operation ..... March 31
Wheeler, J. Y.—Precautions in Plant Protection ..... Feb. 22
Wehe, Roy A. (Guest Editorial)—Service ..... March 17
Witham, E. E.—Symposium on Water Gas and Coke Oven Operations.
Part 2. Underfiring with Refinery Oil Gas ..... June 22
Zare, Milton—Gum Protective Devices for Gas Appliances ..... June 28

EDITORIALS

Guest Editorials

Answers to an Important Question on Utility Advertising—Davis M. DeBard ..... Jan. 11
No Change for the Sake of Change—L. L. Baxter ..... Feb. 15
Service—Roy A. Wehe ..... March 17
Performance Is All That Really Counts—Burt R. Bay ..... April 17
Perhaps We Can Do It Ourselves—Clifford Johnstone ..... May 19
For the Future, Look to the Past—Col. Willard F. Rockwell ..... Aug. 17
Mobilizing for the Future—F. M. Banks ..... Sept. 23
Federal Taxes and the Utilities—Arthur F. Bridge ..... Oct. 21
Post-War Action—E. P. Noppel ..... Nov. 19
Opportunities and Hurdles in Home Service—Jessie McQueen ..... Dec. 7

Thermally Thinking—By Elliott Taylor

AGA national advertising:
Copy change approved ..... Jan. 14
Continuous program endorsed ..... May 22
1943-44 program criticized ..... Oct. 24
Financing of ..... Nov. 21
AGAEM:
Reorganization of ..... May 21
Home service, value of ..... Nov. 21
Industry-government cooperation vindicates democratic principle ..... Oct. 23
Industrial service, its value in wartime ..... Feb. 17
Inflation ..... July 19
Manpower shortage ..... Jan. 13
Washington control of ..... Jan. 13
Racial discrimination ..... Feb. 18
Office of war utilities:
Coordination with PAW ..... May 21
Taylor, Paul R., as natural gas division director ..... July 20
Conservation program ..... Sept. 25
Overton resolution, the ..... Dec. 9
Peak load curtailment.
Extension of L-31 foretold ..... Jan. 13
Rationing averted ..... Feb. 17
OWU winter program ..... Sept. 25
Petroleum administration for war.
OPC becomes PAW ..... Jan. 13
E. Holley Poe ..... Nov. 21
Post-war planning.
Installment payments for post-war delivery ..... Feb. 17
Utility-manufacturer cooperation in appliance development ..... Aug. 20
Realistic program recommended ..... Sept. 26
Servel's "Post-War Action" program ..... Oct. 23
Appliance design ..... Nov. 21
Priorities and material shortages.
The utilities and CMP ..... Jan. 14
Critical period believed past ..... May 21
Public ownerships.
Aided by war taxes ..... Jan. 14
Post-New Deal Planning ..... Feb. 18
Taxation.
Exemption of public owned systems discussed ..... Jan. 14
Relief from excess profits tax required ..... Aug. 19
Excess profits tax relief should be backed by entire industry ..... Sept. 26
Relief essential to safeguard vital fuel supplies ..... Nov. 22
Representation in Washington needed ..... Dec. 10
Wartime regimentation to bring post-war industry cooperation ..... Sept. 25
Wartime burdens of the industry ..... April 19
Utility rates—their effect on purchasing power and rehabilitation of the industry ..... March 19

Post-War Notes and Notions—By Stanley Jenks

Advertising, realism in ..... Nov. 32
Appliance standardization in Great Britain ..... Dec. 36
Committee for economic development, support of ..... Oct. 32
Customer ideas on post-war appliances ..... Nov. 32
Economic considerations ..... Sept. 46
Innovations and the cost element ..... Nov. 32
Magic kitchen of the future ..... Sept. 46
Merchandising, national vs. local problems ..... Oct. 32
Plastics ..... Oct. 32
Post-war home building ..... Dec. 36
Post-war wealth, creation of ..... Nov. 32
Post-war wealth and the industrial machine ..... Dec. 36
Public relations ..... Dec. 36
Realistic planning ..... Sept. 46

GAS AT WAR

The Fifth Freedom—Louis Ruthenburg ..... Oct. 36
Fifty Years of PCGA ..... Sept. 30
The Future of Natural Gas Derivatives—K. S. Adams ..... May 28
The Gas Industry Meets the Challenge of War—Ernest R. Acker ..... April 22
How London Gas Men Met the Blitz ..... April 20
Indoor Climate Institute Has National Education Task ..... June 42
Industrial and Commercial Gas, the Wartime Tasks of (a Symposium).
1. Data on Gas Immersion Tube Heating—F. E. Vandaveer ..... April 35
2. War and Post-War Industrial Equipment—E. G. de Coriolis ..... April 38
3. Aluminum and Magnesium Heat Treating—G. George Segeler ..... April 39
4. Developments in Furnaceless Heat Treating—Fred W. Marklin ..... April 40
5. The War and Metal Treating with Gas—John P. Brosius ..... April 40
6. Small Air Conditioning Installations—George Elmer May ..... May 37
7. Electrolytic "Detearing" Process—Harold P. Ransburg ..... May 38
8. Outlook for the Post-War Period—C. V. Sorenson ..... May 39
An Industrial Medical Program—H. H. Steinberg, M. D. ..... Oct. 29
Institute of Gas Technology—Institute Fellows Serve Again in the War Production Army—Lincoln R. Thiesmeyer ..... Aug. 23
Institute of Gas Technology—Seminar ..... April 42
Liquefied Petroleum Gas Industry Gains Despite War ..... Jan. 20
Liquefied Petroleum Gas Sales Increase 26.5% in 1942 ..... Aug. 38
Mobile Canteens—Ohio Fuel Gas Co. in a War Role—James E. Humphreys ..... Jan. 23

National Advertising Schedule Approved ..... Feb. 42
National Advertising Under Way ..... Oct. 67
Natural Gas Facts for 1942—Honoria B. Moomaw ..... April 25
The Office of War Utilities—Elliott Taylor ..... Oct. 25
Oklahoma Natural Has Victory Lunch Display ..... Dec. 34
PUAA Annual Contest Winners ..... July 33
Pointers on Selling Gas—Tomorrow—Dean H. Mitchell ..... Dec. 23
Pointers for the Dealer in Appliance Servicing ..... June 38
Radio and Newspaper Prove Their Value in Informing Consumers During Gas Outages—Frank R. Jamison ..... Jan. 27
Research—AGA Domestic Research Program Expanded ..... June 53
Research—Metal Heating Project Authorized ..... June 62
Research—The Past, Present and Future—Marcy L. Sperry ..... Dec. 15
Safety Contest—Small Utilities Lead in ..... Feb. 32
San Francisco Has Lowest Utility Bills ..... Aug. 56
Teaching the Customer to Help Himself—Donald S. Bittinger ..... May 25
Trends in Public Utility Regulations—C. O. Ruggles ..... April 27
Utility Accident Awards Announced ..... Sept. 68
Utility Rates Increases in California Deferred ..... May 39
Utility Taxes—an Analysis of—Asel R. Colbert ..... Dec. 20
We'll Always Need Gas—C. George Segeler ..... June 15
We Must Maintain an United Front—Arthur F. Bridge ..... Nov. 24
Whitelaw Confirmed as AGAEM Director ..... May 46

Conservation Measures

Appalachian Area Curtailed ..... Sept., 27—Nov. 52
Appliances—Keeping Them at Their War Jobs—J. H. Collins ..... June 35
Bi-Monthly Billing—R. L. Hayden ..... Sept. 44
Bi-Monthly Billing of Heating Customers—C. G. Alder ..... May 49
Canada Seeks Conservation Measures ..... Oct. 68
Conservation Board Set Up in South Dakota ..... April 26
Conservation in Wartime—Harold L. Ickes ..... April 21
Conservation Rules to Be Revised by Oklahoma Committee ..... Nov. 68
Fuel Conservation Booklets ..... March 22
Fuel Conservation Planned by OWU, PAW, ODT ..... Aug. 22
Mid-Continent Shortages, FPC Acts on ..... Oct. 64
Manufactured Gas Utilities' New Conservation Program ..... July 66
Materials Conservation ..... Jan. 16
101 Companies Participate in Conservation Program ..... Feb. 47
Servel's "Make Every Minute Count" Drive ..... Jan. 16
Surplus Gas Ruling in California ..... Aug. 22
Teaching the Customer to Help Himself—Donald S. Bittinger ..... May 25
Turnover Reduced by 48-Hour Week ..... Nov. 31

Emergency Public Relations

California Storm Tests Emergency Program ..... Feb. 24
Radio Appeals Reduce Cold Wave Send-Out—James F. Pollard ..... Feb. 27
Radio and Newspaper Prove Their Value in Informing Consumers During Gas Outages—Frank R. Jamison ..... Jan. 27

Foreign Notes

Dutch Gas-Driven Boats ..... Jan. 16
Effect of the War on the British Gas Industry—S. J. Beale ..... June 16
How London Gas Men Met the Blitz ..... April 20
Rate Problems in England ..... Feb. 20

Government War Orders and Organizations

Cooking and Heating Stoves (L-23-d) ..... Jan. 15
L-23-c, amended ..... Aug. 21
Cooking and heating stoves rationed ..... May 40
Rationing delayed ..... June 64
Effective, Aug. 23 ..... Sept. 27
Controlled Materials Plan ..... Feb., 19—April 48
CMP Regulation 5 ..... May 40
Furnaces (1-22-a), manufacture prohibited ..... Jan. 15
Deliveries on A-10 priority granted ..... Aug. 21
Gas, Electric, Water and Steam utilities (U-1).
Basic order issued ..... March 21
Supplemental Order U-1-d ..... April 48
U-1-a, amended ..... May 40
U-1-a, amended ..... June 64
U-1-f, service extensions ..... Sept. 28
U-1-g, service extensions ..... Sept. 28
Manufactured Gas (L-174) ..... Jan., 15—Feb. 19
U-7 replaces L-174 ..... Nov. 31
Natural Gas (L-31) ..... Jan., 15—Feb. 19
Replaced by U-7 ..... Nov. 31
Petroleum Industry Materials (P-98-c) ..... April, 50—Sept. 28
Plumbing and Heating Equipment (L-79) ..... Sept. 28
Refrigerators (L-5-d) ..... Jan. 15
Units released to public ..... April 48
Tin, content in solder (PO-M-43) ..... Feb. 19
Restricted for use in gas meters ..... March 21
Restrictions relaxed ..... Dec. 14
Water heaters (L-185), amended ..... Aug. 21
Office of Price Administration.
Dry gas price change ..... Feb. 19
Price bulletin ..... Jan. 17
Ranges, price ruling ..... Aug. 21
Utility rate adjustments ..... March 21
Office of War Utilities.
Article on—Elliott Taylor ..... Oct. 25
Krug, J. A., named power administrator ..... Jan. 20
Conservation program in effect ..... Sept. 27
Petroleum Administration for War Approves East Coast Emergency Oil Line ..... April 41
Office of Petroleum Administration District Offices Established ..... Jan. 31
Petroleum Administration for War Facilities, Pooling of ..... Feb. 20
Petroleum Administration for War.
Ickes' Power Increased ..... Jan. 16
Internal Combustion Engines Delivery Assured ..... Aug. 22
Law Violations ..... May 68
LP-Gas Section Transferred to Natural Gas Division ..... May 40
Materials redistribution plan No. 2 ..... Aug. 22
PAO No. 11 Replaces WPB M-68 ..... April 49
Supplementary Orders Issued ..... June 64
Amended ..... July 51
Supplementary Order No. 2 ..... Aug. 21
PAW Program Division Established ..... Aug. 22
War Production Board Approved 26 in. Oklahoma Line ..... June 16
Decentralized ..... March 46
Industry advisory committee formed ..... June 40
Natural gas agreement with FPC ..... Oct. 58

Miscellaneous

AGA president's address—We Must Maintain an United Front—Arthur F. Bridge ..... Nov. 24
AGA Testing Laboratories Commended ..... Sept. 27
Essential Activities Listed ..... Sept. 27
Gas Industry Meets the Challenge of War—Ernest R. Acker ..... April 22
Gas Line Converted to Oil ..... Feb. 21
Helium Expansion ..... Sept. 29
Krug, J. A., Named Power Administrator ..... Feb. 21
Mobile Canteens—Ohio Fuel Gas Co. in a War Role—James E. Humphreys ..... Jan. 23
Natural Gas Industry War Problems—Burt R. Bay ..... May 23
Southern California Bond Drive ..... March 22
Tennessee Gas and Transmission Co. Pipeline Approved by FPC ..... Oct. 48
Construction Starts ..... Nov. 23

Plant Protection

Blackout Lantern ..... Feb. 23
Camouflage Painting, Effect on the Temperature of Plant Equipment—Oliver W. Johnson ..... May 30
Emergency Repair Organization of Coast Counties Gas and Electric Company ..... June 19
Extinguishing Fires on Gas Services ..... Oct. 46
Plant Protection Fact Sheet Published ..... March 22
Precautions in Plant Protection—J. Y. Wheeler ..... Feb. 22
Protecting Gas Holders Against Bombing Attacks—John N. Doran ..... Feb. 23

POST-WAR PLANNING

American Gas Association Issues Post-War Marketing Report ..... Nov. 36
Post-War Planning From the Manufacturer's Standpoint—By Col. Willard F. Rockwell ..... April 29
Appliance Design, PCGA "Idea" Contests on ..... April 70
The Future of Natural Gas Derivatives—By K. S. Adams ..... May 28
Post-War Activities of the American Gas Association—By A. M. Beebee ..... July 25
Post-War Marketing of Appliances—By Arthur P. Hirose ..... July 30

Winners of PCGA "Idea" Contest Announced ..... July 64
Servel Plans Post-War Distribution of Gas-Fired Air-Conditioning Unit ..... Sept. 47
Report of Gas Industry Development Committee (PCGA)—By H. L. Masser.
1. Potential Appliance Markets ..... Oct. 33
2. Improvements in Gas Equipment ..... Nov. 33
3. Promotion, Advertising, Financing ..... Dec. 29
4. Engineering and Technical Studies ..... Dec. 30
5. National Economic Factors ..... Dec. 34
Research—The Past, Present and Future of—By Marcy L. Sperry ..... Dec. 15
Kitchens Featured in "Home of Tomorrow" Contest ..... Dec. 44

GENERAL ARTICLES

Annual Review—How the Industry Served in 1942—Arthur F. Bridge ..... Jan. 18
Army Releases Facts on Chicago Holder Crash ..... Oct. 60
Bi-Monthly Billing—R. L. Hayden ..... Sept. 44
Bi-Monthly Billing of Heating Customers—C. G. Alder ..... May 49
Butadiene Production, Southern California Gas Company—H. L. Masser ..... July 21
California Commission Rules on Two Rate Cases ..... Nov. 28
California's Butadiene Problem ..... Nov. 29
Conservation Board Set Up in South Dakota ..... April 26
Conservation in Wartime—Harold L. Ickes ..... April 21
Conservation—Oil Men Discuss Gas Conservation in Three States ..... June 65
Customer Service—Reorganization in Laclede Gas Co. ..... June 63
The Drying of Foods in the Home—a Summary of Methods Perfected by Los Angeles Utilities ..... July 34
Easton, Pa., Explosion, Facts on ..... Nov. 64
Federal and State Agencies, Cooperative Planning Between—Paul L. Holland ..... Nov. 26

PRODUCTION

Arkansas Sour Gas Salvaged ..... Aug. 31
Butadiene Production, Southern California Gas Company—H. L. Masser ..... July 21
California's Butadiene Problem ..... Nov. 29
Canada Seeks Conservation Measures ..... Oct. 68
Conservation of Natural Gas ..... Feb. 34
Conservation Rules to Be Revised by Committee ..... Nov, 68
Cracking Gas Enriching Oil ..... Nov. 37
Gas Generators.
Sprays and Burners, Design of—R. A. Hanson ..... March 27
Conversion of Water Gas Machines—J. E. Kelley ..... March 29
Pressure Drop in Checker Brick—R. V. Dunkle ..... March 30
Gas Reserves Studied at IOCC Meeting ..... Oct. 56
Oil Gas Production Increased Efficiency and Capacity in—C. H. Webber and A. L. Klees ..... Oct. 41
Recycling Plant Design and Operation—Harry Wheeldon ..... March 31
Rules Set for Potentials in West Cement Field ..... Dec. 50
South Dakota Tests Show Gas ..... Oct. 72
Storing Gas Underground:
1. Summary of Projects by States—O. D. Hall ..... Dec. 38
2. Field Tests for Determining Injection Volumes, Pressure and Plant Capacity—Jo H. Cable ..... Dec. 41
Stripper Wells, Oil Compact Commission Findings on ..... Aug. 37
Underground Gasification of Coal ..... Oct. 45
Underground Storage — Playa Del Rey Field Storage Starts June 1 ..... May 29
Water Gas and Coke Oven Operations (A Symposium):
1. Silicon Carbide Solid Linings—A. S. Hall ..... June 21
2. Under-firing with Refinery Oil Gas—E. E. Witham ..... June 22
3. Gasoline Enrichment of Producer Gas—W. O. Keeling ..... June 24
4. Two-Shell Water Gas Sets in Boston—D. S. Reynolds ..... June 25

DISTRIBUTION

California Storm Tests Emergency Program ..... Feb. 24
Gas Holder Corrosion—By M. Frank Knoy ..... May 34
Gas Measurement Work—Importance of Proper Chart Censoring in—By C. S. Glidden ..... Aug. 26
Leakage-Pressure—Relationship to Buried Distribution Main—By L. R. Pickup ..... Aug. 29
Master Metered Housing Projects—Survey of Gas Usage in—By John J. Pugh ..... Oct. 38
Measuring Station Yards, Maintenance of ..... April 68
Natural Gas Changeover, Consumers Power Company ..... Jan. 21
Precautions in Plant Protection—By J. Y. Wheeler ..... Feb. 22
Propane-Air in Place of Coal Gas—By T. C. Moran ..... Feb. 28
Protecting Gas Holders Against Bombing Attacks—By John N. Doran ..... Feb. 23
Radio Appeals Reduce Cold Wave Send-Out—By James F. Pollard ..... Feb. 27
Service, Maintenance and Manpower Problems Feature AGA Distribution Meeting ..... May 25
Street Department Work, Centralized Planning of. (A Symposium in Three Parts.)
1. Central Dispatching—By J. F. Stafford ..... Sept. 36
2. Production Forecasting and Control—By C. N. Hardin ..... Sept. 39
3. Engineering Job Planning—By W. G. Cox ..... Sept. 40
Teaching the Customer to Help Himself—By Donald S. Bittinger ..... May 25

TRANSMISSION

"Big Inch" Completed ..... Aug. 33
Cement Asbestos Pipe Coating—R. J. Dumas ..... Oct. 43
Cities Service Constructs 32 Miles of New Pipeline ..... Jan. 44
Feb. 37
Gas Engines—Radiator Cooling of ..... March 25
East Ohio Line to Be Completed Oct. 1 ..... Aug. 34
Internal Cleaning of Gas Lines ..... Dec. 48
High Pressure Gas Transmission—C. E. Terrell ..... April 31
Oklahoma Natural Line Augments Tulsa Gas Supply ..... Jan. 30
Old Cast Iron Pipe Does War Duty ..... Nov. 52
Michigan Gas Transmission Will Connect with Ohio Line ..... Feb. 37
Rapid Repair of Major Line Break ..... Feb. 36
Reconditioned Pipe Will Serve Again ..... June 27
Reconditioning Steel Mains in Detroit—R. B. Allen ..... Feb. 31
Roswell Compressor Plant—New Mexico Eastern Gas Co.—J. E. Cozzens ..... Feb. 33
Salvaged Pipe Brings East Texas Gas to Dallas ..... March 34
Tennessee Gas & Transmission Co. Pipeline Approved by FPC ..... Oct. 48
Construction Begun ..... Nov. 23
War Emergency Pipeline ..... Jan., 31—Feb., 19—March 30
April, 41—Aug. 33
WPB Approves New 26-in. Oklahoma Line ..... June 66

UTILIZATION

Air Conditioning Preserves Rare Books ..... March 52
Appliance Design, PCGA "Idea" Contests on ..... April 70
Appliance Repair, Free Plan for ..... April 66
Appliance Servicing—Points for the Dealer ..... June 38
Combustion Safeguards in the Utilization of Gaseous Fuels, by Theodore A. Cohen ..... March 23
The Drying of Foods in the Home—A Summary of Methods Perfected by Los Angeles Utilities ..... July 34
Gas Engine Warmer Helps Speed Up Pilot Training ..... Oct. 62
Gas Does a Job in a Model Bakery ..... March 36
Gas Heat Treating at Link-Belt Co. ..... May 66
Gas Heater Provides Drying System ..... March 50
Gas Heating Cabinet Dries Plane Engines in Four Hours—E. H. Adler ..... May 33
Gum Protective Devices for Gas Appliances—F. E. Vandaveer and Milton Zare ..... June 28
Industrial and Commercial Gas—The Wartime Tasks of
1. Immersion Tube Heating—F. E. Vandaveer
2. Industrial Equipment—E. G. de Coriolis
3. Heat Treating of Aluminum and Magnesium—C. George Segeler
4. Furnaceless Heat Treating—Fred W. Marklin
5. Metal Treating—John P. Brosius ..... April 35
Infra Red for Industrial Purposes ..... Oct. 47
Intertype Corp. Uses Gas Furnace ..... March 56
Keeping Gas Appliances at Their War Jobs—J. H. Collins ..... June 35
An Overhead Heater Used in England ..... May 62
P. G. & E. Will Supply 2,400,000 cu. ft. Daily to New California Vegetable Dehydration Plant ..... Nov. 39
Shrimp Drying with Natural Gas—A. J. Perry, Jr. ..... March 33
Substitutes for Metals in Heating Ducts ..... Feb. 30